



In The United States Patent and Trademark Office

Application Number: 09/494,212
Applicants: Shi-Lung Lin
Filing Date: 01/25/2000
Title: Method for Generating Full-Length Messenger RNA Library

Examiner: Bradley L. Sisson
Group Art Unit: 1655

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AMENDMENT C

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

In response to the Office Action mailed 06/13/2001, kindly amend the above application as follows.

IN THE SPECIFICATION:

Kindly amend the original filed specification as follows.

1. In page 6, line 12 to page 7, line 2, please delete the last paragraph and replace such deleted paragraph with the following replacement paragraph which is the same as the original filed paragraph:

C

The mRNAs can be prepared from a plurality of fixed cells, wherein said fixed cells are protected from RNA degradation and also subjected to permeabilisation for enzyme penetration. Those fixed cells include fixative-treated cultural cells, frozen fresh tissues, fixative-treated fresh tissues or paraffin-embedded tissues on slides. To increase the transcriptional production of mRNAs in the step (e), the promoter sequences are preferably incorporated into the 5'-ends of said second-strand cDNAs. In another aspect of this embodiment, said amplified mRNAs are preferably capped by P¹-5'-(7-methyl)-guanosine-P³-5'-adenosine-triphosphate or P¹-5'-(7-methyl)-guanosine-P³-5'-guanosine-triphosphate in the step (e) for further in vitro translation. On the other hand, the deoxynucleotide used in the tailing reaction of said first-strand complementary DNAs is either deoxyguanylate (dG) or deoxycytidylate (dC), and the average number of tailed nucleotides is larger than seven; most preferably, the number is about twelve. Advantageously, the final amplified mRNAs can be continuously reverse-transcribed into double-stranded